

## **ATTACHMENT # 3-E SPECIFICATIONS**

### **GENERAL DESCRIPTION OF THE PROJECT**

*A translation to Spanish will be given as a courtesy. If a discrepancy is found between the version in Spanish and the version in English, the version in English will prevail.*

The principal features and characteristics of the work that is to be done are detailed below. The work consists of supplying, refurbishment and transporting Four (4) 20 ft containers, SEA LAND VAN or sea transportation in perfect conditions. The containers should be fitted with the interior and exterior facilities described in the following paragraphs and shall be delivered into Bogota's urban perimeter and located at the site indicated by the representative of the embassy.

### **DETAIL PROJECT INFORMATION**

#### **1. Container supply**

##### **1.1 20 ft Container**

The contractor shall supply Four (4) 20 ft containers of the SEA LAND VAN type, which is also known as a MARINE TRANSPORTATION CONTAINER, in perfect condition and free of dents, and this will be adapted to meet the following requirements:

- Each container shall be 8 feet wide, 8 feet high and 20 ft long.
- Each 20 ft. container weighs 5005 lb. (2270 Kg.) when empty.
- The roof, walls and floor of each container shall be completely waterproofed, to prevent water leaking and/or dripping. This work includes checking and/or changing washers as necessary.

#### **2. Container Transportation**

##### **2.1 Transportation and location**

The containers shall be transported from the production site to into Bogota's urban perimeter. The work includes loading and unloading the container, obtaining and renting a crane or forklift, and container localization on its final site according to embassy representative. If the container or nearby structures suffer any damage during transportation and/or movement to the site indicated, the contractor will bear all costs and expenses which might be incurred in carrying out repairs, all at no cost whatsoever to the Embassy.

#### **3. Containers Refurbishment**

##### **3.1 Repairing and finishing container floor**

If the container has wood floor type the contractor shall be approved by the COR. The contractor shall waterproof container wood floor especially against moisture to prevent rot, using any paint or waterproofing for wood (Texsa, Sika or equivalent) to ensure the durability of this against moisture, plagues and fungus at least 10 years. The contractor shall ensure the sealing of the perimeter and unions so that there do not stay splits that could allow filtrations; as the same form it will have to be perfectly leveled. The waterproofing shall be applied on both sides (2) of the floor, interior and exterior.

This finish shall be to install a heavy duty 'Konker' type at least 4 mm. thick, in squares or equivalent; the contractor shall install an insulating material and/or linking item between floor and finish, to ensure stability and prevent the finish expanding or lifting due to changes of temperature. Skirting should be of rubber or PVC with the same color of the floor.

The contractor who is awarded the work shall submit a catalogue of the floor that is to be fitted to the Embassy so that color and finish can be chosen before installation work begins.

##### **3.2 Container repairing and adapting walls and roof**

It is necessary to check and to repair intern and externally the dents, cracks, fissures or damages of the walls and roof of the containers –constructed in structural steel of 2 mm. thick– to clean and to sand the metallic surface of the container, to apply a hand of painting anticorrosive in the exterior and interior of the container.

### **3.3 Supply and installation of thermal insulation and interior finish**

This item consist in supply and install polyurethane sheets of high-density (flameproof) to the roof and all interior walls of the containers, at least 5 cm. thick, in order to guarantee adequate thermal and acoustic insulation. Once this thermal insulation has been fitted, the contractor will supply and install the interior finish of the container, consisting of galvanized caliber 20 sheets anchored to the container structure. The area to be coated is the roof and all walls, except the windows and eolic extractor.

### **3.4 Painting inside of container**

Once installed the galvanized sheets of finished intern of the container will proceed to paint them. The first coat will be a wash primer (or other type of paint which guarantees adhesion to the galvanized sheet), after which two coats of ‘Pintuco’ quality washable white gloss will be applied. The minimum thickness will be 3 mils. between two coats of gloss.

### **3.5 External painting of containers**

The painting of external container shall be three (3) coats of enamel paint Pintuco quality, silver color ref: P-153 or similar, like a weather resistant finish. Should be applied according to the manufacturer's specifications on the anticorrosive.

## **4. Electrical Installations**

### **4.1 Electrical panel**

The contractor shall supply and install a customized electrical panel (one per container). This panel will be located inside the container at a height of at least 1,50 meters from the floor to the rear of the panel. It includes the totalizator and the breakers for the internal facilities, which must be calculated based on the responsibility to install of internal lighting, sockets to 180 V and leaving capacity of available reservation of 40 %. This board will have to be labeled and to contain electric diagram and a load directory. The board shall be landed to equipotencial barrage. For the arrival of the connection to the internal board of the container it will have to supply and to install in the exterior an industrial connector NEMA 12 for outdoors (plug male and female with system of twist lock); this connector will be located according to indicated in drawing attached. All the electrical facilities of the internal mesh of the container must go equipotencial in accordance with ANSI/EIA/TIA607, IEEE77-80 and RETIE standards.

### **4.2 Channeling**

The contractor must bear in mind that all canalization must be to the interior of the thermal isolation of the container shall be in PVC conduit. The changes of direction must be provided with the respective boxes of step.

### **4.3 110V Socket electrical point**

Two (2) 110V industrial sockets, with earth pin will be supplied and fitted, duly labelled with a non-removable plastic or metal low-relief or embossed label. The sockets shall be linked throughout the circuit. These sockets will be distributed according to indicated on enclosed plan. Electric cabling shall follow the color code for low tension (yellow, blue or red for phases, white for neutral and green for earth).

### **4.4 Fluorescent lamp**

The contractor shall supply and install two (2) 2 x 48” and pipe T8 of 2 x 39 W with conventional starting condenser, no electrical type; inside the container, as shown on enclosed plan. With factory fitted acrylic protector (that makes a total of 8 lamps). Each lamp includes plug, switch, and fluorescent tubes. The lamps will be put on top to internal sheets of covering of the container.

These lamps will stem from the main board that will install in the container. The connection of every lamp does not make using cable rubber-lined, therefore every branch of the circuit must finished in electrical capture of the type twist-lock and counterpart with pin of the same type, the drivers are canalized by means of flexible cuirasse

(American cuirasse). So each lamp withdraws of simple form to carry out maintenance or corrective arrangement. Each one of the sockets must take a labeled that indicates the circuit to which it corresponds. The wired up one of the light must go in tubes PVC conduit absorbed inside the thermal isolation of the container.

To light the lamps will have to install one (1) switch located next to access door, according to indicated in the attached drawing.

#### **4.5 Air conditioner**

The contractor shall supply and install two (2) air conditioner of 12000 BTU each one including all accessories. These air conditioners include metallic support fixed onto the wall, electrical points and drainage. The installation shall be as shown in the plans.

### **5. Metallic Carpentry**

#### **5.1 Metallic Stairs**

This item includes supply and installation of a metallic stairs, leaning on the edge of the access door to the container, which can be assembled and disassembled without the need to anchor it. The ladder must be angle iron structure and the traces of structural steel sheet. Within this item is included a coat of anticorrosive and two coats of enamel paint Pintuco quality, silver color ref: P-153 or similar, like a weather resistant finish.

#### **NOTE**

The contractor to whom the project is awarded will have to present:

- Pre-calculations of the electrical system, with planes of the raised, with informative diagrams indicating materials, dimensions, diameters, etc.
- Detailed architectural drawings of the interior of the container, the COR for approval before being sent to production.
- Catalogues of materials and sanitary fixtures and accessories for selection of finished of the project. All this will have to submit it for approval to the COR before being sent to production or transporting to the work to be installed.

The following drawing is enclosed:

1. General main floor.